





OBSERVATIONS "FROM THE GUT"

23 October 2001

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Director, Surface Ship Technology (SEA 53)
RDA Chief Engineer
Single Integrated Air Picture (SIAP) System Engineer

1992

GTMO L.A.

Hurricane Andrew

Counterdrug **Pakistan**

SOUTHERN WATCH FIREY VIGIL

PROVIDE HOPE

PROVIDE REL⁴ 999 PROVIDE PRO

RESTORE HO

Liberia

Guam

1993

Operation DENY F

Operation SUPPORT DEMOCRACY (Haiti)

SOUTHERN WATCH PROVIDE CONFORT

Iraq Air Strike

Somalia - Rangers

Flood Relief

1991

EASTERN EXIT DESERT STORM PROVIDE COMFORT

SEA ANGEL

DESERT THUNDER

1990

TOP KICK

SHARP EDGE

DESERT SHIELD

PROMOTE LIBERTY

INDONESIA

INDIA/PAKISTAN

KOSOVO

Joint Guardian DELIBERATE FALCON

JOINT FORGE

INFINITE REACH

HURRICANE **GEORGES**

HURRICANE MITCH

IRAO

994

East Timor

Allied Force

Shining Hope

L.A. Earthquake

Korea

Bosnia

DISTANT RUNNER

SUPPORT HOPE

Cuba

PROVIDE PROMISE

UNISOM II

WILDFIRE SUPPORT

UPHOLD DEMOCRAC

UNITED SHIELD DELIBERATE FORCE

Hurricane Opal

VIGILANT SENTINEL

VIGILANTE WARRIOR IFOR-Bosnia

(Joint Endeavor)

1989

Libya Shootdown NIMROD DANCER **BLADE JEWEL Philippines JUST CAUSE**

NORTHERN WATCH **ASSURED LIFT JOINT GUARD** (SFOR) SILVER WAKE **GUARDIAN** RETRIEVAL **CAMBODIA**

China Cuba

IRAQ

Khobar **Towers**

Korea

ASSURED RESPONSE

QUICK RESPONSE

Burundi

Olympics Desert Strike

AFSC JP007c D#32-g

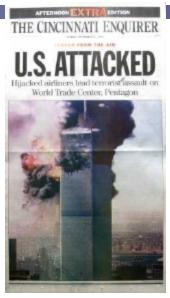


GOOD NEWS AND BAD NEWS









GOOD NEWS...

Cold War is Over

BAD NEWS...

Enemy/Threat Axis Much Less Well-Defined

Threat Diversity, Complexity and Capability Growing Rapidly

NOT THE TIME TO REST!!!



THE QUESTION REMAINS . . .



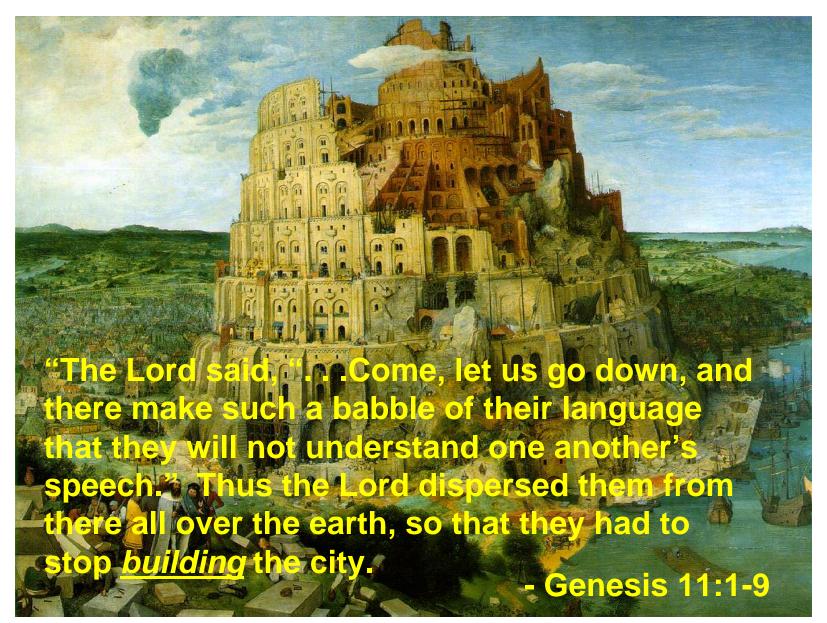




NEED TO (REALLY) LISTEN TO OUR WARFIGHTERS (MORE) . . .



COMMON OBJECTIVE WITHOUT COMMON LANGUAGE OR LEXICON



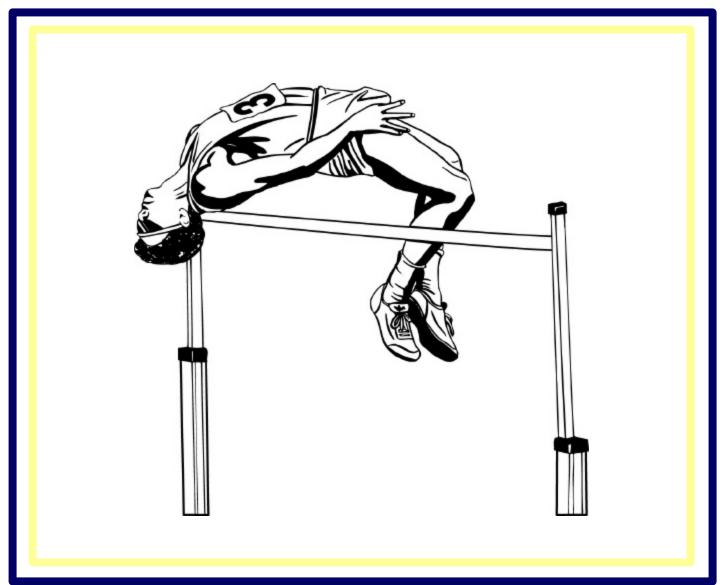


AND WE NEED MORE THAN A "BAND AID" FIX . . . !





IT'S HIGH JUMP, NOT LIMBO . . .





SOME THOUGHTS ON ENGINEERING CHALLENGES

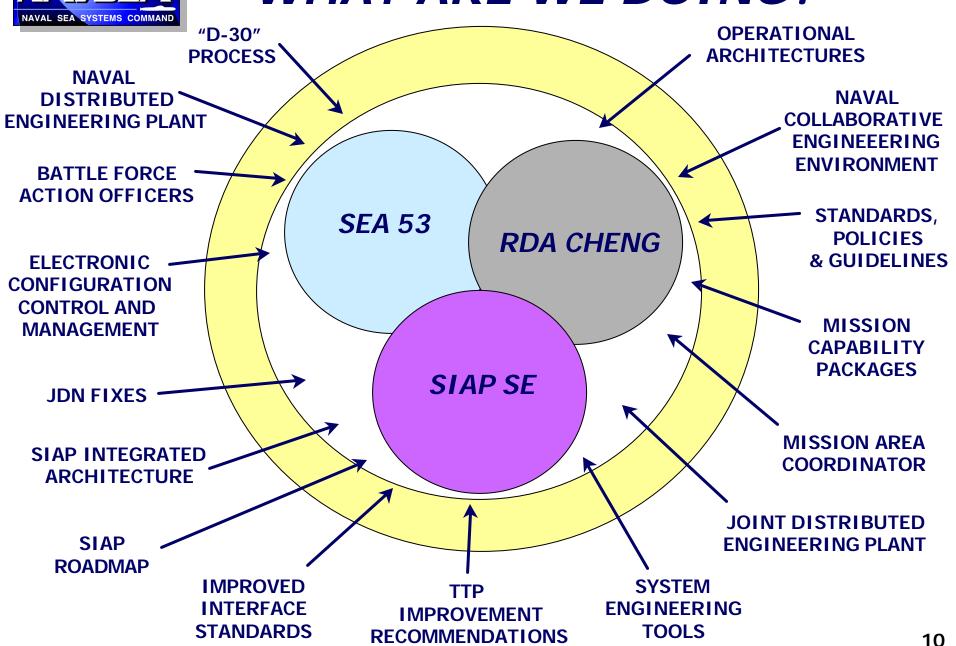
- Commercial Off-the-Shelf Technology (COTS)
- Reliance on COTS Requires Open Architecture
 - Open Architecture Allows for Equipment Upgrades, Without Total Redesign of the System

 Joint Interoperability....the environment has changed...the Joint Battle Force is THE SYSTEM

REQUIREMENTS DRIVE TECHNOLOGY

V4\V_7 =4\ NAVAL SEA SYSTEMS COMMAND

WHAT ARE WE DOING?





INDUSTRY DIALOG - STARTED AND ONGOING -

- Battle Force Interoperability Task Force June 1998
- Joint Distributed Engineering Task Force November 1999
- Naval Interoperability Industry Day July 2001
- Single Integrated Air Picture (SIAP) Industry Day September 2001
- Navy Single Integrated Picture (SIP) Study September 2001
- Industry Workshops SIAP Architecture TBD November 2001



WIEA WHERE DO WE GO FROM HERE ?

- "CLOSE TO HOME"... WORK ON ESTABLISHING JOINT/NAVAL CONNECTIVITY WITH TOOLS SUCH AS THE NAVY AND JOINT DEP
- "WE" HAVE TO BE MORE RECEPTIVE TO INDUSTRY IDEAS AND FEEDBACK
- INDUSTRY PARTNERSHIP/PROACTIVE SUPPORT AT EVENTS SUCH AS "INDUSTRY DAYS" AND APPLICABLE WORKSHOPS
- "BOTH OF US" HAVE TO WORK TOWARD MAKING OUR PROFESSIONAL PARTNERSHIP MORE EFFECTIVE . . . AND PRODUCTIVE !